R18 Regulation *Subject code: 2P5CD*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech V Semester Supplementary Examinations, April 2026

AUTOMOBILE ENGINEERING

(ME)

Maximum Marks: 70 Date: 22.04.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	BTL
1	What are the functions of fuel injection systems?	2M	1	L1
2	What is mean by IC Engines?	2M	1	L1
3	Define cooling systems.	2M	2	L1
4	Name the types of ignition system.	2M	2	L1
5	Define Chassis.	2M	3	L1
6	Define MPFI system.	2M	3	L1
7	Name the types of braking systems.	2M	4	L1
8	What is meant by Toe-out in steering system?	2M	4	L1
9	Write the disadvantages of hydrogen as fuel.	2M	5	L1
10	What are the merits of biomass?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Briefly explain different types of carburetors.	10M	1	L2
	OR			
12	Explain solex carburetor with neat sketch.	10M	1	L2
13	Briefly explain fuel injection systems with neat sketch.	10M	2	L2
	OR			
14	Explain the requirements of diesel injection systems with neat sketch.	10M	2	L2
15	Briefly explain any one type of ignition system with neat sketch.	10M	3	L2
	OR			
16	Explain about the starting system of automobile.	10M	3	L2
17	Write about the International Pollution standards.	10M	4	L2
	OR			
18	Explain about Davis steering mechanism with neat sketch.	10M	4	L2
19	Discus the techniques of pollution control.	10M	5	L2
	OR			
20	Write about Biomass, alcohols and LPG as alternate fuels.	10M	5	L2